

GUIDELINEGEO

MALÅ MIRA

GROUND PENETRATING RADAR

Efficient 3D GPR-system for large scale mapping



MALÅ

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MALÅ Imaging Radar Array (MIRA) is a true 3D system providing a cost-effective solution for large scale mapping and subsurface object identification.

With a production rate of up to 50,000 m² per day, it is a highly efficient system that seamlessly integrates acquisition, processing, QA/QC, positioning, interpretation and export of interpreted results.

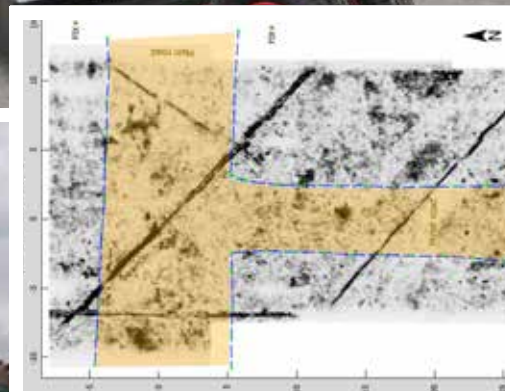
The strength with the MIRA solution lies with its ability to quickly collect high resolution data over a vast area, by gathering full 3D data in broad paths (swaths). Each data point collected is associated with a precise coordinate obtained in real time from a linked RTK GPS or Robotic Total Station.

MIRA data, once processed, shows unprecedented details, which makes it possible for high accuracy interpretation and results.

The data is processed in 3D, displayed and interpreted through a dedicated software package. Interpreted results can be exported to leading GIS or CAD software for further analysis and storage.

Features

- ▷ Collects up to 50,000 m² of data per day
- ▷ Efficient and high resolution large scale 3D mapping
- ▷ Customizable no. of channels
- ▷ 3 available antenna frequencies 200, 400 and 1300 MHz
- ▷ Software for acquisition, and post processing included
- ▷ Compatible with external RTK GPS or Robotic Total Station
- ▷ User-defined cross channel communication



CUSTOM-MADE CONFIGURATIONS AND SOFTWARE

Configurations

From compact 8-channel-array hand-pushed configurations to larger 31-channel-array systems, MALÅ MIRA systems can be custom-made to fit your specific requirements.

A system is made up of multiple antennas configured in an array, with the MALÅ ProEx Control Unit as its base.

”MALÅ’s Imaging Radar Array (MIRA) is the most advanced and complete multi-channel ground penetrating radar 3D array system on the market”.

- Ludwig Boltzman Institute, Austria

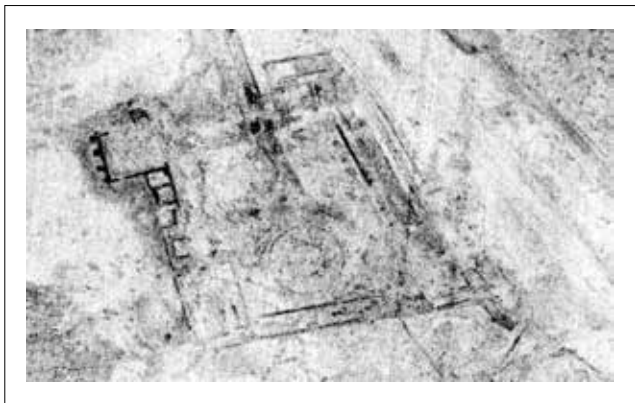
Software

The MIRAsoft acquisition software, provides information regarding the ongoing measurements and helps the user to identify possible quality issues. MIRAsoft integrates high resolution coordinate information in real-time for each data point.

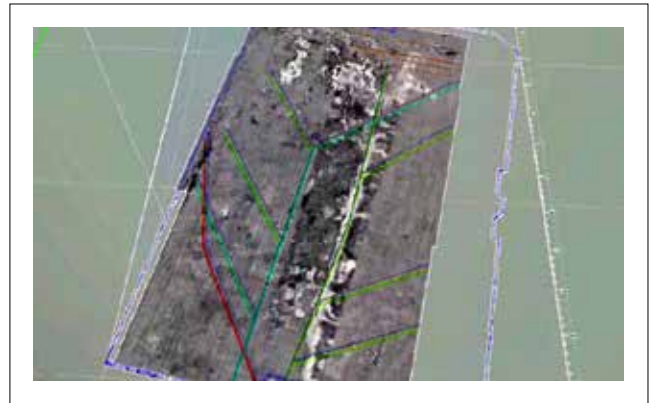
The high resolution and positioned data is then imported to the rSlicer software for display, processing, interpretation and export of results.

Application Areas

- ▷ Utility mapping
- ▷ Archeological investigations
- ▷ Forensic investigations
- ▷ Runway investigations
- ▷ Sinkhole mapping
- ▷ Buried objects Detection



High resolution MIRA data showing Roman gladiator training camp. Slice at 1 meters depth. Relevant data is roughly 100 x 100 m.



MIRA data (overlaid with interpretation) showing irrigation system buried in football pitch. Slice at 0.5 meters depth.

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ABEM | MALÅ

Guideline Geo is a world-leader in geophysics and geo-technology offering sensors, software, services and support necessary to map and visualize the subsurface. Guideline Geo operates in four international market areas: Infrastructure – examination at start-up and maintenance of infrastructure, Environment – survey of environmental risks and geological hazards, Water – mapping and survey of water supplies and Minerals – efficient exploration. Our offices and regional partners serve clients in 121 countries. The Guideline Geo AB share (GGEO) is listed on NGM Equity.

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